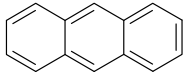


Anthracene (アントラセン)

Experimental Data (Short treatments)

Chemical Name : <u>Anthracene</u> Synonym : - Molecular Weight : 178.23 Melting Point : 218 °C[Merck] Boiling Point : 339.9°C[CHCD] Flashing Point : 121 °C[CHCD] Molecular Formula : C ₁₄ H ₁₀ Chemical Structure ;  CAS No. : 120-12-7 METI No. : (4)-683 MHLW No. : - Specified Chemical Substances ; - Source of Substance; Wako Pure Chemical Industries, Ltd. Lot No. : PAP7566 Purity : 100.0% Vehicle : Dehydrated DMSO	Treatment Time (h)	S9 mix	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)						Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)					
				No. of Metaphase	Chromatid		Chromosome		Others			Total	No. of Metaphase	Poly-ploid	Others	Total	
					ctb	cte	csb	cse									
	6-18	-	[DMSO] (1%)	200	1.0	0	0	0	0	1.0	0.5	100	202	1.0	0	1.0	
			0.45†	200	1.0	0.5	0	0	0	0	1.5	0.5	86	202	0.5	0.5	1.0
			0.90†	200	0	1.5	0	0	0	0	1.5	2.0	75	203	1.5	0	1.5
			1.4†	200	1.0	0.5	0	0	0	0	1.5	0	76	201	0.5	0	0.5
			1.8†	200	2.0	1.0	0	0	0	0	3.0	0.5	88	205	2.4	0	2.4
			[MMC] (0.00012)	200	13.0	46.0	0	0	0	0	53.5	1.5	-	201	0.5	0	0.5
			[DMSO] (1%)	200	0.5	0.5	0	0	0	0	0.5	1.0	100	203	1.5	0	1.5
	6-18	+	0.005	200	0.5	0.5	0	0	0	1.0	0	84	202	1.0	0	1.0	
			0.010	200	1.0	4.5	0	0	0	5.0	0.5	78	205	2.4	0	2.4	
			0.015	200	5.5	10.0	0	0	0	13.5	1.5	71	205	2.4	0	2.4	
			0.020	200	8.0	19.0	0.5	0	0	24.0	1.0	60	201	0.5	0	0.5	
			0.025	134	23.1	38.1	0	0	0	48.5	1.5	46	138	2.9	0	2.9	
			[B[a]P] (0.01)	200	7.0	47.0	0	0	0	49.0	0	-	202	0.5	0.5	1.0	

※ Test conditions: S9mix ; 5%, Treatment time ; 6h, Recovery time ; 18h

† The precipitation of test chemical was observed in the culutre medium.

Judgement for
Chromosomal Aberration in CHL/IU ; Positive

IARC Evaluation : Group 3

Experimental Data without Metabolic Activation (Continuous treatments)

Treatment Time (h)	Concentration (mg/ml)	Cell with Structural Chromosome Aberration (%)							Gap (%)	Cell Growth Rate (%)	Cell with Numerical Chromosome Aberration(%)			
		No. of Metaphase	Chromatid		Chromosome		Others	Total			No. of Metaphase	Poly-ploid	Others	Total
			ctb	cte	csb	cse								
24-0	[DMSO] (1%)	200	1.0	0.5	0	0	0	1.5	0.5	100	202	1.0	0	1.0
	0.45†	200	0	1.0	0	0	0	1.0	0	79	200	0	0	0
	0.90†	200	0	0.5	0	0	0	0.5	0	84	202	1.0	0	1.0
	1.4†	200	0.5	0.5	0	0	0	1.0	0	85	201	0.5	0	0.5
	1.8†	200	0.5	0.5	0	0	0	1.0	0	86	201	0.5	0	0.5
	[MMC] (0.00004)	200	7.0	31.5	0	0	0	37.0	2.0	—	200	0	0	0
48-0	[DMSO] (1%)	200	0.5	0	0	0	0	0.5	0	100	200	0	0	0
	0.45†	200	0.5	0	0	0	0	0.5	0	101	200	0	0	0
	0.90†	200	0	0	0	0	0	0	0	95	200	0	0	0
	1.4†	200	0.5	0.5	0	0	0	1.0	0	88	202	1.0	0	1.0
	1.8†	200	0	1.0	0	0	0	1.0	0	93	201	0.5	0	0.5
	[MMC] (0.00004)	200	13.5	50.5	0	0	0	54.0	0.5	—	200	0	0	0

※ Test conditions: Treatment time ; 24h or 48h, Recovery time ; 0h

† The precipitation of test chemical was observed in the culture medium.